

ABSTRACT

An exemplary method for configuring a network may comprise assigning a plurality of first nodes as a balanced incomplete block design of the form $2-(v, k, 1) = b$, wherein v first nodes, arranged in b groups of k first nodes, are interconnected such that a pair of first nodes appears in only one group of the b groups. The method also comprises assigning a plurality of sets of second nodes wherein each first node is associated with at least one set of second nodes, and determining network paths from each second node of the plurality of sets of second nodes to every other second node.